

Lesson 9 – Polarity and Intermolecular Forces Worksheet

1. For each of the following molecules, draw the Lewis structure, find the shape, and identify the polarity.

a) OF_2

b) PCl_5

c) COF_2

c) H_2S

d) CH_2Cl_2

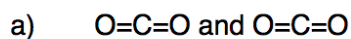
e) SO_2

f) SO_3

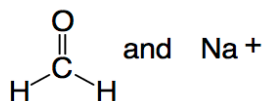
g) CF_4

h) BrF_5

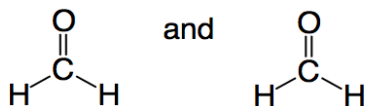
2. List all types of intramolecular forces that would be exhibited between the pairs of species shown below.



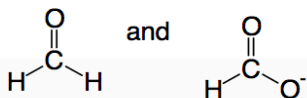
b)



c)

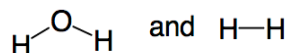


d)

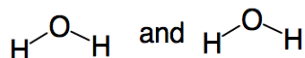


3. Which of the following pairs of compounds can form hydrogen bonds? For those that can, identify the partial positive and partial negative charges in the molecules and indicate where the hydrogen bond will form. For those that cannot form hydrogen bonds, identify the intramolecular forces present between the pair.

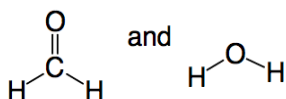
a)



b)



c)



d)

